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THOMPSON BROS. CO.

ESTABLISHED
...1875... MUSCATINE, IOWA.



INSECTICIDES
CYPHERS INCUBATORS
CYPHERS POULTRY FEEDS
SPRAYING MATERIALS



NATIONAL HOG WATERS
STAR TANK HEATERS
LOWE BROS. PAINTS
FAVORITE STOVES AND RANGES

THOMPSON BROS. CO.

MUSCATINE, IOWA.



This list is published for the purpose of acquainting our customers with the stocks we carry, and to give them an approximate idea of the cost of such articles. Good seeds, seeds that have a value are constantly changing in price, like hogs, cattle, wheat, etc. For this reason a great many articles here listed Feb. 1st may be selling at a lower price by the time you are ready to buy. We do, however, endeavor, as much as possible, to maintain the list prices clear through on goods in small quantities like pints, quarts, packets and ounces.

SPECIAL NOTICE

Owing to a possibility of errors, or failure of seed to grow, over which we have no control, we hereby in common with all other Seedsmen, give no warranty, expressed or implied, as to description, purity or productiveness of any seed we sell. If the purchaser does not accept them on these terms, they must be returned at once and the amount paid for them will be refunded.

Notice Carefully the Prices—Be sure to know whether we or you are to pay the freight or express, and bear in mind that we do not pay the express or freight charges on pecks or bushels, nor on any tools or plants, nor on potatoes, grass seeds, field seeds or fertilizers, except where we so state on the pages where the goods are priced.

We pay Postage or Expressage on all seeds quoted by the packet, ounce, quarter pound and pound, also on pints and quarts of Peas, Beans and Sweet Corn, and upon all goods quoted in our catalogue where it says: "Prepaid by mail or Express."

THOMPSON BROS. CO.

Store: 131 and 133 W. Second Street

Warehouse: 211-213 Chestnut St.

MUSCATINE, IOWA

The descriptions of all seeds will be found in alphabetical order in the Catalogue beginning at Page 4. Where no price is given in the price list it indicates that the article is in very short supply and that it will be to the advantage of the buyer to ask for a special price. Grass Seeds, Clover and all varieties of field seeds vary so much that we find it more satisfactory to have the buyer write for the market price.

GARDEN SEEDS---POST PAID

ASPARAGUS—Seed

	Pkt.	Oz.	¼ lb.	Lb.
Conover's Colossal .....	.05	.10	.20	.35
Palmetto .....	.05	.10	.20	.35

BEANS

All Beans are scarce this year. Some varieties, the crop was a total failure.

Dwarf, Bush or Snap, Green Podded Varieties

	Pkt.	½ Pt.	Pt.	Qt.
Hopkin's Improved Valentine.....	.10	.20	.30	.50
Early Improved Red Valentine.....	.10	.20	.30	.50
Long Yellow, Six Weeks.....	.10	.20	.30	.50
Red Kidney .....	.10	.20	.30	.50
Navy .....	.10	.15	.20	.30
Burpee's Bush Lima.....	.10	.20	.30	.50
Henderson's or Dwarf Seiva.....	.10	.20	.30	.50

Dwarf, Bush or Snap, Wax Podded Varieties

Davis White Wax.....	Crop Failed
Golden Wax	Crop Failed
Improved Golden Wax, Rust Proof.....	Crop Failed
Black Wax	Crop Failed
Wardwell's Kidney Wax.....	Crop Failed

Pole or Running

	Pkt.	½ Pt.	Pt.	Qt.
White Creaseback .....	.10	.15	.30	.50
Red Speckled Cut Short or Corn Hill .....	.10	.15	.30	.50

Kentucky Wonder or Old Homestead .....	.10	.15	.30	.50
Lazy Wife .....	.10	.15	.30	.50
Large White Lima.....	.10	.15	.30	.50
King of the Garden Lima.....	.10	.15	.30	.50
Early Dutch Case Knife.....	.10	.15	.30	.50

Peck and Bushel Values Vary. Write for prices.

BEETS—For the Table

	Pkt.	Oz.	¼ lb.	Lb.
Early Egyptian Blood Turnip.....	.05	.10	.20	.50
Early Eclipse .....	.05	.10	.20	.50
Lentz Early Blood Turnip.....	.05	.10	.20	.50
Long Smooth Dark Blood.....	.05	.10	.20	.50

Beets—Mangel Wurzels

	Pkt.	Oz.	¼ lb.	Lb.
Long Red .....	.05	.10	.15	.35
Gold Tankard .....	.05	.10	.15	.35

Beets—Sugar

	Pkt.	Oz.	¼ lb.	Lb.
Lane's Imperial Sugar.....	.05	.10	.20	.35
Vilmorin's Improved Sugar.....	.05	.10	.20	.35
Klein Wanzleben .....	.05	.10	.20	.35

BROCCOLI

	Pkt.	Oz.	¼ lb.	Lb.
White Cape .....	.05	.30	.75	
Purple Cape .....	.05	.30	.75	

BRUSSELS SPROUTS

	Pkt.	Oz.	¼ Lb.	Lb.
Dwarf Improved .....	.05	.20	.50	\$1.50

CABBAGE

	Pkt.	Oz.	¼ Lb.	Lb.
Early Jersey Wakefield.....	.05	.20	\$0.60	\$2.00
Henderson's Early Summer .....	.05	.20	.60	2.00
All Head Early .....	.05	.20	.60	2.00
All Seasons .....	.05	.20	.60	2.00
Succession .....	.05	.20	.60	2.00
Early Dwarf Flat Dutch.....	.05	.20	.60	2.00
Early Winningstadt .....	.05	.20	.60	2.00
Glory of Enkhuisen, Imported Stock .....	.05	.25	.75	2.50
Copenhagen Market, Imported Stock .....	.05	.25	.75	2.50
Premium Late Flat Dutch.....	.05	.15	.45	1.50
Surehead .....	.05	.20	.60	2.00
Holland Short Stem Strain, Imported Stock .....	.05	.20	.60	2.00
Red Dutch .....	.05	.15	.45	1.50

CARROT

	Pkt.	Oz.	¼ Lb.	Lb.
Early Scarlet Horn .....	.05	.10	\$0.25	\$0.75
Half Long Nantes .....	.05	.10	.25	.75
Geurande or Ox Heart.....	.05	.10	.25	.75
Danvers .....	.05	.10	.25	.75
Half Long Scarlet Carentan .....	.05	.10	.25	.75
Improved Long Orange.....	.05	.10	.25	.75
Long White Belgian .....	.05	.10	.25	.75

CAULIFLOWER

	Pkt.	Oz.	¼ Lb.	Lb.
Early Snowball .....	.15	1.50	\$5.00	\$20.00
Earliest Dwarf Erfurt .....	.15	1.50	5.00	20.00

CELERY

	Pkt.	Oz.	¼ Lb.	Lb.
Golden Self-blanching .....	.10	.50	1.50	5.00
White Plume .....	.05	.15	.40	1.25
Boston Market .....	.05	.15	.40	1.25
Giant Pascal .....	.05	.15	.40	1.25
Giant White Solid .....	.05	.15	.40	1.25
Large Smooth Prague, Cel-eriac .....	.05	.10	.35	1.00

CORN SALAD

	Pkt.	Oz.	¼ Lb.	Lb.
Large Seeded, Large Leaved.....	.05		.10	.15

SWEET CORN

	Pkt.	Pt.	Qt.
White Cob Cory.....	.05	.15	.25
Early Minnesota .....	.05	.15	.25
Early Evergreen .....	.05	.15	.25
Shoe Peg .....	.05	.15	.25
Country Gentleman .....	.05	.15	.25
Golden Bantam .....	.05	.20	.30
Stowell's Evergreen .....	.05	.15	.25
Mammoth .....	.05	.15	.25

CORN—Popping

	¼ Lb.	Lb.
White Rice, Shelled .....	.10	.25
51 Pearl Shelled .....	.10	.25

CRESS

	Pkt.	Oz.	¼ Lb.	Lb.
Curled or Pepper Grass .....	.05	.10	\$0.20	
True Water .....	.10	.30	1.00	

CUCUMBER

	Pkt.	Oz.	¼ Lb.	Lb.
Early Cluster .....	.05	.10	.20	.65
Green Prolific or Boston				
Pickling .....	.05	.10	.20	.65
Early Frame or Short				
Green .....	.05	.10	.20	.65
Chicago Pickle, Western				
field's .....	.05	.10	.20	.65
Improved Long Green .....	.05	.10	.20	.65
Early Improved White				
Spine .....	.05	.10	.20	.65

EGG PLANT

	Pkt.	Oz.	¼ Lb.	Lb.
Improved New York, Purple				
—Spineless .....	.05	.20	.90	3.50

ENDIVE

	Pkt.	Oz.	¼ Lb.	Lb.
Green Curled .....	.05	.15	.30	.90
White Curled .....	.05	.15	.30	.90

GOURDS

	Pkt.	Oz.	¼ Lb.	Lb.
Dipper .....	.05	.15		
Fancy Varieties, Mixed .....	.05	.15		

HERBS

	Pkt.	Oz.	¼ Lb.	Lb.
Anise .....	.05	.15	---	---
Balm .....	.05	.25	---	---
Basil, Sweet .....	.05	.20	---	---
Caraway, for Planting .....	.05	.10	.20	
Coriander .....	.05	.10	.20	
Dill—Mammoth .....	.05	.10	.20	
Dill—Common .....	.05	.10	.20	
Horehound .....	.05	.25	---	---
Lavendar .....	.05	.20	---	---
Sweet Marjoram .....	.05	.15	.40	
Rosemary .....	.05	.25	---	---
Sage—Broad Leaved .....	.05	.15	.40	
Summer Savory .....	.05	.15	.40	
Thyme .....	.10	.25	1.00	

KALE

	Pkt.	Oz.	¼ Lb.	Lb.
Dwarf Curled Scotch .....	.05	.10	.20	.60
Tall Curled Scotch .....	.05	.10	.20	.60

KOHL-RABI

	Pkt.	Oz.	¼ Lb.	Lb.
Early White Vienna .....	.05	.20	.40	1.50
Early Purple Vienna .....	.05	.20	.40	1.50

LEEK

	Pkt.	Oz.	¼ Lb.	Lb.
London Flag .....	.05	.20	.40	1.50

LETTUCE

	Pkt.	Oz.	¼ Lb.	Lb.
Black Seeded Simpson .....	.05	.10	.20	.65
Grand Rapids, B. S. ....	.05	.10	.20	.65
Early Curled Simpson,				
White Seeded .....	.05	.10	.20	.65
Denver Market, W. S. ....	.05	.10	.20	.65
Prize Head, W. S. ....	.05	.10	.20	.65
Improved Hanson, W. S. ....	.05	.10	.20	.65
Buttercup, W. S. ....	.05	.10	.20	.65
Tomhannock, W. S., Bronze.	.05	.10	.25	.85
Oak Leaf .....	.05	.10	.20	.75

MUSKMELON

Prices on Muskmelon do not hold. ASK FOR PRICES.

	Pkt.	Oz.	¼ Lb.	Lb.
Burrell's Gem .....	.05	.10	.20	.60
Early Hackensack .....	.05	.10	.20	.40
Admiral Togo .....	.05	.10	.20	.60
Hoodoo .....	.05	.10	.20	.60
Emerald Gem .....	.05	.15	.25	.85
Osage .....	.05	.10	.15	.40
Rocky Ford .....	.05	.10	.20	.60
Jenny Lind .....	.05	.10	.20	.80
Defender, True Stock .....	.05	.10	.35	1.00

WATERMELON

Prices on Watermelon do not hold. ASK FOR PRICES.

	Pkt.	Oz.	¼ Lb.	Lb.
Tom Watson .....	.05	.10	.15	.35
Kleckly Sweets, same as				
Monte Cristo .....	.05	.10	.20	.50
Light Icing .....	.05	.10	.20	.50
Kolb's Gem .....	.05	.10	.15	.35
Monte Cristo .....	.05	.10	.15	.50
Gypsy or Rattlesnake .....	.05	.10	.20	.50
Peerless .....	.05	.10	.20	.50
Sweetheart .....	.05	.10	.20	.50

MUSTARD

	Pkt.	¼ Lb.	Lb.
Black (Wild) .....	.05	.10	.25
White, London .....	.05	.10	.25

NASTURTIUM

	Pkt.	Oz.	¼ Lb.	Lb.
Tall or Garden .....	.05	.10	.20	.50
Dwarf Mixed .....	.05	.10	.20	.50

ONION SEED

	Pkt.	Oz.	¼ Lb.	Lb.
Southport Red Globe .....	.05	.15	.40	2.00
Large Red Wethersfield .....	.05	.15	.75	2.50
Early Flat Yellow Danvers .....	.05	.15	.70	2.25
Yellow Globe Danvers .....	.05	.15	.70	2.25
Philadelphia Silver Skin .....	.05	.25	.90	3.25
Prize Taker .....	.05	.15	.70	2.25
White Barletta .....	.05	.20	.80	2.75

ONION SETS

	Post Paid
Red Bottom Sets, ½ pints, any kind	\$0.10
White Bottom Sets, pints, any kind .....	.15
Yellow Bottom Sets, quarts, any kind .....	.25
Genuine Top Sets .....	.25
Bushel and peck, write for market prices.	

PARSLEY

	Pkt.	Oz.	¼ Lb.	Lb.
Plain or Single .....	.05	.10	.20	.75
Double Curled .....	.05	.10	.20	.75

PARSNIP

	Pkt.	Oz.	¼ Lb.	Lb.
Improved Hollow Crown.....	.05	.10	.15	.45

PEAS—Smooth Seed

Smooth Seed Peas, 60 lbs. to Bushel

	Pkt.	½ Pt.	Pt.	Qt.
Alaska .....	.10	.15	.20	.35
First and Best .....	.10	.15	.20	.35
Early May .....	.10	.15	.20	.35
Extra Early .....	.10	.15	.20	.35
Telegraph .....	.10	.15	.20	.35
Tom Thumb .....	.10	.15	.20	.35
White Marrowfat .....	.10	.15	.20	.30
Telephone .....	.10	.15	.20	.40
Pride of Market .....	.10	.15	.20	.35

PEAS—Wrinkled Seed

Wrinkled Seed Peas, 56 lbs. to Bushel

	Pkt.	½ Pt.	Pt.	Qt.
American Wonder .....	.10	.15	.20	.35
Abundance .....	.10	.15	.20	.35
Gems, Premium .....	.10	.15	.20	.35
Dwarf Gray Sugar .....	.10	.15	.20	.35

Peck and bushel price of Peas vary, write for prices.

PEPPER

	Pkt.	Oz.	¼ Lb.	Lb.
Long Cayenne .....	.05	.20	.50	1.50
Red Chili .....	.05	.20	.50	1.50
Bell or Bull Nose .....	.05	.20	.50	1.50
Sweet Mountain .....	.05	.20	.50	1.50
Ruby King .....	.05	.20	.50	1.50
Golden Dawn .....	.05	.20	.50	1.50

PUMPKIN

	Pkt.	Oz.	¼ Lb.	Lb.
Small Sugar .....	.05	.10	.20	.50
Mammoth Sugar .....	.05	.10	.20	.50
Connecticut Field .....	.05	.10	.15	.35

RADISH

	Pkt.	Oz.	¼ Lb.	Lb.
Scarlet Turnip White Tip- ped Forcing .....	.05	.10	.15	.45
Early Scarlet Globe, the best forcing variety .....	.05	.10	.15	.45
Long Scarlet Short Top.....	.05	.10	.15	.45
White Icicle .....	.05	.10	.15	.45
Early Scarlet Turnip .....	.05	.10	.15	.45
Deep Scarlet Turnip .....	.05	.10	.15	.45
White Tipped Scarlet Turnip .....	.05	.10	.15	.45
French Breakfast .....	.05	.10	.15	.45
Early White Turnip .....	.05	.10	.15	.45
Long Brightest Scarlet .....	.05	.10	.15	.45
Improved Chartier .....	.05	.10	.15	.45
Crimson Giant .....	.05	.10	.15	.45
Long White Vienna or Lady Finger .....	.05	.10	.15	.45
White Strasburg .....	.05	.10	.15	.45
White Summer Turnip .....	.05	.10	.15	.45
White Stuttgart .....	.05	.10	.15	.45
Yellow Summer Turnip .....	.05	.10	.15	.45
Rose China Winter .....	.05	.10	.15	.45
Large White Spanish .....	.05	.10	.15	.45
Long Black Spanish .....	.05	.10	.15	.45

RHUBARB

	Pkt.	Oz.	¼ Lb.	Lb.
Victoria .....	.05	.10	.15	.50
Linnaeus .....	.05	.10	.15	.50

SALSIFY

	Pkt.	Oz.	¼ Lb.	Lb.
Large White .....	.05	.10	.20	.80
Mammoth Sandwich Island..	.05	.15	.25	.90

SPINACH

	Oz.	¼ Lb.	Lb.
Round Leaved .....	.05	.10	.30
Savoy Leaved .....	.05	.10	.30
Prickly or Winter .....	.05	.10	.30

SQUASH—Summer Varieties

	Pkt.	Oz.	¼ Lb.	Lb.
Summer Crookneck .....	.05	.10	.25	.75
Mammoth White Brush.....	.05	.10	.25	.75
Early White Bush .....	.05	.10	.25	.75
Hubbard .....	.05	.10	.25	.70

TOBACCO

	Pkt.	Oz.
Connecticut Seed Leaf .....	.05	.25

TOMATO

	Pkt.	Oz.	¼ Lb.	Lb.
Earliana .....	.05	.20	.40	1.50
New Stone .....	.05	.20	.40	1.50
Favorite .....	.05	.20	.40	1.50
Perfection .....	.05	.20	.40	1.50
Ponderosa .....	.05	.35	.50	2.25
Beauty .....	.05	.20	.40	1.50
Yellow Pear .....	.05	.25	.75	---
Red Pear .....	.05	.35	.80	---
Husk or Ground Cherry.....	.05	.25	.75	---

RUTA BAGA

	Pkt.	Oz.	¼ Lb.	Lb.
Improved American Purple Top .....	.05	.10	.15	.40
White Ruta Baga .....	.05	.10	.15	.40

TURNIP

	Pkt.	Oz.	¼ Lb.	Lb.
Extra Early White Milan.....	.05	.10	.20	.75
Early White Flat Dutch, Strap Leaved .....	.05	.10	.15	.35
Early Purple Top, Strap Leaved .....	.05	.10	.15	.35
Purple Top White Globe.....	.05	.10	.15	.35
Cow Horn or Long White.....	.05	.10	.15	.35
White Egg .....	.05	.10	.15	.35
Sweet German .....	.05	.10	.15	.35

All prices for Garden Seed, except where noted, are for the Seeds Prepaid to your postoffice or express office.

BIRD SEEDS

	Post Paid Lb.
Canary .....	.20
Hemp .....	.20
Millet .....	.15
Rape, German Bird .....	.20
Mixed Bird Seed .....	.20
Sunflower .....	.20

DESCRIPTIONS

ASPARAGUS

Giant or Palmetto Asparagus

A very large, early rapid growing variety; producing even perfect roots in abundance. It is well adapted to every state. Grows soon from seed.

Conover's Colossal Asparagus

A very large valuable variety. Make the soil rich and stir deep. It is one of the best large hardy varieties that we have. Sprinkle in the ground with salt in the spring and keep soil moist.

BUSH BEANS

Wardwell's Kidney Wax

Hardy and productive, pods long, broad, thick, flat, and of a delicate waxy yellow, of excellent quality and with no string in the early growth, ready to pick 49 days from planting.

Golden Wax

The old standard wax sort. Productive and early with yellow semi-round pods of good quality, ready to pick 49 days from planting.

Improved Golden Wax

Rust proof, an improvement on the old style Golden Wax. Pod is semi-round, yellow, of good quality and has no string. Ready for picking 47 days from planting.

Davis White Wax

This bean is adapted alike for the canner, market gardener, shipper or amateur. The dry bean is large, kidney shaped, and white in color, making it one of the best for cooking in a dry state. Pods are long, meaty, flat in shape, and of a beautiful yellow color and fair quality.

Prolific Black Wax

The old standard Black Wax Bush Bean. It is so good that it is worthy of special notice. The pods are round, brittle, of handsome golden yellow color, and of buttery flavor when cooked.

Extra Early Red Valentine

Hardy, pods light green, and semi-transparent, round and slightly curved. Succulent, prolific, and quite free from strings, continuing long in an edible condition; 46 days from planting to first picking.

Long Yellow Six Weeks

The vine is large, vigorous, branching and productive, with large leaves. Pods long, straight, thick, flat in shape, green in color, of good quality when young and fair as they near maturity. Is ready for picking 45 days from planting.

DWARF LIMA VARIETIES

Burpee's

The only bush form of the true, luscious large lima. It is pronounced by all good judges as un-

questionably the real Bush Lima. The bushes grow eighteen to twenty inches high, of stout growth and always erect. It is an immense yielder.

Henderson's

This is a bush form of the small Seiva pole bean. It is the original bush form of the pole beans. It is the most productive of any, and on the whole is a vegetable of great merit.

Small White Lima, Carolina or Sieva

Vines vigorous with many short branches, so that they are sometimes grown without poles; very early and productive, bearing short pods, which are thin and curved.

POLE BEANS

Kentucky Wonder

Vines vigorous, climbing well, and very productive, bearing its pods in large clusters, blossoms white; pod green, very long, often reaching 9 to 10 inches. Nearly round when young and very crisp, although as they reach maturity they become irregular and spongy. Dry beans long, oval, dun-colored.

Lazy Wife

One of the most productive and easily gathered of the Pole Beans, hence its very discourteous name. A most excellent bean for the home garden.

Early Jersey Lima

Ten days earlier than any other Lima. Recommended as a most profitable Lima Bean.

King of the Garden Lima

The old standard market and family sort. The vine begins to produce pods at the foot of the pole, and the bearing season continues until frost. Pods large, and well filled with beans of mammoth size.

Large White Lima

The large Lima is a general favorite wherever it can be cultivated, on account of its excellent flavor and productiveness.

Red Speckled Cut Short (or Corn Hill)

This is the best sort to plant in hills of corn. A great cropper.

Dutch Case Knife

Vines moderately vigorous climbing well and excellent for a corn hill bean; leaves large, crumpled, and pods very long, flat, green in color, becoming creamy white later. Beans broad kidney shaped, flat and white in color.

White Creaseback

An extremely early Pole Bean. Vines small to medium and wonderfully productive. Bearing pods in clusters of from 4 to 12, and medium in length. An excellent shipper.

Price List of all Varieties in Front Pages of Catalogue

TABLE BEETS

Early Eclipse

A choice early variety; well known and popular. Shape, globular; quality, good; color, light.

Early Egyptian

The well-known early variety. Color, extra dark; shape, flat; quality, excellent.

Lentz Extra Early Blood Turnip

A favorite market-gardeners' beet around Philadelphia. Very early and sweet; ringed red and white.

Improved Blood Turnip

An improved variety of the Early Blood turnip of deep, blood-red color; fine form and flavor. An excellent market sort.

Long Smooth Blood

The standard long late sort. Very dark, blood-red flesh; quality fine.

SUGAR BEETS

Vilmorin's Improved Sugar

In general, the most desirable beet for the factory is the one containing the largest percentage of sugar.

Klein Wanzleben

A little larger than Vilmorin's Improved, yielding from twelve to eighteen tons per acre, and containing about the same amount of sugar. It grows below the surface, and the green leaves are rather large and spreading.

Lane's Imperial Sugar

Good for making sugar, also stock feeding. A hardy and productive sort. Yields fourteen to sixteen tons per acre, and contains about 16 per cent of sugar.

STOCK BEETS

Improved Mammoth Long Red

The largest and most productive variety. Immense crops can be grown from it.

Golden Tankard

Shape cylindrical, color deep rich yellow, flesh yellow circled with white. Unequalled for feeding stock.

CABBAGE

Early Jersey Wakefield Cabbage

Selected stock. This is one of the most important varieties in the list. Great care must be exercised in the growing of the seed to have it pure and true to type.

Copenhagen Market

A new early variety, popular with market gardeners. It is one of the finest early round-headed cabbage in cultivation. It is desirable on account of

the remarkable characteristics of maturing the heads all at the same time, enabling the grower to gather his crop with less expense and permitting the cleaning of the land at the first cutting. The heads average about ten pounds each in weight, are hard and solid with small core. The quality is extra fine and sweet. It is a short stemmed variety, the heads nearly resting on the ground. The leaves are light green, rather small, saucer-shaped and tightly folded, making it possible to set them close together in the field.

Glory of Enkhuizen

This is an excellent mid-summer variety. It comes in about a week earlier than All Seasons, makes a nice large head, has few outer leaves and can be planted close. Tests show it to be worthy of a place among the new varieties of merit and we can recommend it as a good addition to the list.

Henderson's Early Summer

A standard summer variety. We have the true stock.

Henderson's Succession

A good summer cabbage; also makes a good cabbage to succeed itself.

Early Winningstadt

An early variety of excellent quality, not as early as the Wakefield.

All Head Early

One of the finest early flat-head cabbages.

Early Dwarf Flat Dutch

An early cabbage of good size. Heads are flat and very solid.

All Seasons

A fine variety for any season, of good shape and size.

The Holland Cabbage

The heaviest cabbage for the size of head ever introduced.

Sure Head

A fine variety for main crop. A good shipper and sure header.

Premium Flat Dutch

This variety of late cabbage is a standard in all sections for winter use.

CARROTS

Early Short Horn

Excellent for early planting out of doors. Tops small, coarsely divided; roots top-shaped, but tapering abruptly to a small tap, skin orange-red.

Guerande, or Ox Heart

Tops small for the size of the roots which are comparatively short but often reach a diameter of 5 inches, terminating abruptly in a small tap root. Flesh bright orange, fine grained and sweet. This variety is especially desirable for soil so hard and stiff that longer rooted sorts would not thrive in it. When young excellent for table use, and when mature equally good for stock.

Price List of all Varieties in Front Pages of Catalogue

Danvers

Grown largely on account of its great productiveness and adaptability to all classes of soil. Tops of medium size, coarsely divided. The smooth and handsome roots are deep orange, of medium length, tapering uniformly to a blunt point; flesh sweet, crisp, tender and of a deep orange color. Although the roots of this variety are short, they produce as large a bulk as the longer field sorts and are more easily harvested.

Long Orange

The most popular of the older sorts for farm use on mellow soil. An improvement obtained by years of careful selection of the best formed and deepest colored roots.

White Belgian

Grows one-third out of the ground. Root white, green above ground, with small top. Flesh rather coarse. The roots are of large size and the variety is extensively grown for stock feeding.

CAULIFLOWER**Snowball**

The leading cauliflower and unquestionably the purest strain of "Snowball" cauliflower seed to be had. Heads uniform; of desirable market size and of snowy whiteness.

Earliest Erfurt

A variety that has given excellent satisfaction to our home gardeners. It is snow white and a sure header. Gardeners will be amply repaid by giving this variety a fair trial.

CELERY**Golden Self Blanching**

The best of all early self-blanching varieties. First introduced in America in 1884, this is decidedly better in quality than the White Plume. It is ready for use nearly as early, blanches easily, and is larger in size as well as finer in quality. It is of dwarf compact habit, with thick, solid, heavily ribbed stalks which blanch easily to a clear waxen yellow.

Giant Pascal

This is a green leaved variety developed from the Golden Yellow Self Blanching, and is an excellent sort for fall and winter use. It blanches to a beautiful yellowish-white color, is very solid and crisp and of a fine nutty flavor.

White Plume

This is the earliest and most easily blanched, but does not keep well taken from the trenches. The plants grow rapidly and blanch easily during the summer months. Later in the fall the central stalks and leaves are of pure snowy whiteness even without earthing up.

Boston Market

For many years one of the most popular sorts in the markets of Boston. Instead of a single large heart it forms a number of smaller ones which are very white, and remarkably tender and crisp. The best variety for light soils.

CUCUMBERS**Chicago or Westerfield Pickling**

A variety esteemed and grown extensively for the large pickling establishments.

Improved Long Green

Fruit long and slim, not surpassed in quality by any variety.

Early Cluster

Vines vigorous, producing the bulk of the crop near the root and in clusters.

Green Prolific or Boston Pickling

A favorite with pickle growers and commercial gardeners and good for table use.

Early Frame or Short Green

An excellent sort for table use and for pickling. Fruit straight, handsome, smaller at each end, bright green; flesh tender and crisp and makes fine pickles.

Early White Spine

One of the best sorts for table use. Vines vigorous, fruiting early and abundantly.

SWEET CORN**Country Gentleman**

We have a stock of this excellent sweet corn that is exceptionally good. There is no sweet corn that compares with the Country Gentleman for sweetness. It is the variety par excellence where quality is desired. Market gardeners who make a specialty of growing for hotels and high class restaurant trade use this as a main crop variety in preference to any other. For home use it will be found superior and it is very productive. The fact that it is a favorite variety with canners proves its merit.

White Cob Cory

This is an improvement over the Early Cory, as the cob is white, which gives it a finer appearance. It is as early as the Early Cory and of excellent quality.

Mammoth White Cory

The ears are twelve rowed, much larger than the old Cory, white cobbled, and covered with very large white grains of good quality.

Early Minnesota

One of the standard early sorts. Ready for market two weeks later than Cory.

Early Mammoth

Closely resembles the Late Mammoth, but is a little smaller, and about two weeks earlier. Of good size and quality.

Stowell's Evergreen

This standard main crop variety excels all other late sorts in sweetness and productiveness. It is more popular than any other for canning, for marketing and for the home garden. Great care has to

Price List of all Varieties in Front Pages of Catalogue

be exercised in the selection of stock to grow seed from, as this variety has a tendency to deterioration and a shorter grain, which makes it less sugary and desirable.

Golden Bantam Sweet Corn

A very early sweet corn with golden yellow grain, very tender and of excellent quality. The ears are six to seven inches long and of the medium size found most suitable for the table. The flavor is exceptionally rich and delicious. Our stock has been very carefully selected. Height about four feet.

LETTUCE

Black Seeded Simpson

We have a fine strain of this lettuce carefully selected. This is the most popular loose-leaved sort.

Early Curled Simpson White Seed

Forms a close, compact mass of curly yellowish green leaves. Earlier than the head varieties.

Grand Rapids Forcing

Preferred by a great many to the Black Seeded Simpson, on account of being a tougher leaved lettuce.

Buttercup

A head lettuce of fine quality. Inside of head is waxy, crisp and delicious.

Hanson

Heads, very large from two to three pounds each; hearts quickly and stands the summer well; quality excellent.

Oak Leaved

Leaves light green, oak shaped, slightly curled, set close, having no coarse stems; of fine flavor and extreme tenderness.

Denver Market

This is a fine crisp, crimped head variety.

Brown Dutch

This is a good variety. Makes a round head tinged with red.

MUSK MELON

Rocky Ford

This has become one of the most popular of small or crate melons and is shipped in large quantities from Colorado and Arizona. The vines are vigorous and productive. The fruits are oval, slightly ribbed, densely covered with fine netting. Flesh green, very sweet and highly flavored.

Defender

This is one of the best yellow fleshed sorts in some respects is far superior to any of this class. The fruit is medium sized, oval in shape, slightly ribbed, covered with gray netting. The flesh is firm, fine grained, rich, deep yellow, darker than that of the Osage and of higher flavor.

Early Hackensack

The fruits are nearly two weeks earlier than Hackensack, medium to large sized, nearly round or somewhat flattened, evenly and deeply ribbed and with very coarse netting. The skin is green, slightly tinged with yellow as the fruits mature. The flesh is green, a little coarse, but juicy and sweet.

Burrell Gem

The originator says: "The new Rocky Ford Melon with Golden Meat." This describes the melon fully, as in the outside appearance it looks just as the best types of green fleshed Gems, or Rocky Fords, do, but has orange flesh inside.

Admiral Togo

This is an orange fleshed netted Gem or Rocky Ford.

The Osage

Is of medium size, oval in form, dark green in color, somewhat netted and slightly ribbed. The flesh is extremely and uniformly thick, of firm texture, rich salmon in color; highly flavored and delicious to the rind. Cavity very small. It is a remarkable keeper and a good shipping melon.

Jenny Lind

Vines rather small but vigorous and productive. Fruits small, somewhat flattened, deeply ribbed and well netted. Flesh green and exceedingly sweet.

Emerald Gem

A very early melon of small to medium size. One of the very best for the home garden. Vines vigorous and productive. Fruits globular or slightly flattened, somewhat irregularly ribbed and very slightly netted. ..

Hoodoo

A new orange fleshed variety, ideal as a shipping melon and of the very finest quality. Vine vigorous, remarkably blight resisting and very productive. Fruits uniformly of medium size. Netting exceptionally fine and dense, extending practically over the entire surface.

WATER MELON

Tom Watson Water Melon

Originated near Augusta, Ga., a few years ago; very prolific—six carloads on ten acres often made; shape long; color dark, deep green no stripes; large—often times 50 to 60 pounds; two melons to the vine; no ends, no necks to rot; better shipper than Rattlesnake; tougher rind; flesh deep red; seeds white, smeared with yellow.

Gypsy, or Georgia Rattlesnake

One of the largest varieties, and stands shipment long distances. Fruit cylindrical, square at the ends, smooth, distinctly striped and mottled light and dark green.

Sweetheart

This melon is early, large, handsome, heavy and productive. The shape is oval, and color mottled light to very light green.

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Florida Favorite

A very large, long melon, mottled dark green, with stripes of lighter shade.

McIver's Wonderful Sugar

Without a single exception this is the sweetest watermelon of all.

Monte Cristo or Kleckley Sweets

A splendid sort. Vine vigorous and productive; fruit of medium size; oval; color dark, mottled green in two shades, forming indistinct stripes.

Peerless

The old but extremely popular home market melon. There is none better nor a more handsome melon grown.

ONION SEED

Large Red Wethersfield

We have a very fine and select strain of this sort. Color is deep purplish red, flesh white moderately grained and very firm. Yields an enormous amount per acre, and is one of the best winter keeping onions.

Yellow Globe Danvers

This fine onion is of large size. An early and abundant cropper. Bulbs very thick, flat or slightly convex bottoms, full oval top with small neck and rich brownish yellow skin.

Southport Red Globe

This is a fine keeper. Large size and considered one of the best red onions. Flesh is fine grained, very mild and tender.

Early Flat Yellow Danvers

A good variety, but not as round or quite as early as the Yellow Globe Danvers.

Prizetaker

Grows to an immense size and for fall marketing is unexcelled. Although of such great size, it is very hardy and a fair winter keeper, as it ripens up hard and firm; very fine grained, and of mild, delicate flavor. The outside skin is rich yellow while the flesh is white. To get the best results from this onion the seed is sown in beds and transplanted. It will, however, make a good crop if sown in the ordinary way.

Philadelphia Silver Skin

Very desirable for family use. Flavor mild and pleasant.

White Barletta

When matured the tops die down, leaving beautiful and perfect little bulbs. The color is pure white, flavor mild and delicate, perfectly adapted for pickling and table use.

PEAS

Alaska

Well known and extensively used, especially by canners. Very early and when carefully grown, uniform in ripening. Vine is strong and vigorous,

2 to 2½ feet high, of a peculiar light green color; pod 2¼ to 2¾ inches long, straight and blunt at the end, and light in color. Is ready for picking 49 to 50 days from planting. Seed round, blue, slightly pitted.

First and Best

Early, productive and hardy with a strong, vigorous vine, which is light in color and uniform in growth, 2 to 2½ feet in height and bearing straight pods 2½ to 2¾ inches long, round light in color and blunt at the ends. Is fit for table use 50 to 52 days from planting. Seed round, rather small, and white in color.

Telephone

Vines and leaves large and coarse. Foliage light green in color. Height 40 to 50 inches, pods 4½ inches long, broad, pointed, medium green in color. Fit to pick 62 to 65 days from planting. Seed large, green, wrinkled.

Pride of the Market

Of fine growth and general appearance, both vine and pod, and closely resembles the Stratagem except that the vine is not quite so long and the pods are deeper green in color. The vine is 20 inches high, foliage dark green color. Pods are 3½ inches long, broad and dark in color. Fit for table use 61 days from planting. Seed blue, slightly dented, large.

Telegraph

Closely resembling Telephone in all respects, except that the pods are a deeper shade of green, and the peas are of only fair quality, although the pods are of very fine appearance. Pods 4 to 4½ in. long, medium dark green, pointed. Fit to pick 65 days from planting. Seed, large, blue and round, dented.

American Wonder

Vigorous, productive vines, with luxuriant foliage, and producing the leaves on one side of the stalk, growing from 9 to 12 inches high. On account of its dwarf habit of growth it is very desirable for private garden use. Pods are light colored, straight, round, about 2½ inches long and blunt at the end. Fit for picking 55 days from planting. Seed is wrinkled, green, medium in size and square at the ends.

Abundance

Vigorous in growth and productive, bearing pods in great abundance, although of medium size, and of excellent quality. Very similar in every respect to Horsford's Market Garden, except that it is about a week later, being fit for picking 71 days from planting. Pods are dark green, and blunt. Seed green, wrinkled, medium in size.

Premium Gem

Strong and vigorous, producing vines from 18 to 24 inches in height, dark foliage, bearing pods singly on both sides of the stalk beginning near the ground. Pods are almost straight 2½ to 2¾ inches long, light in color and blunt at the ends. Ready to pick 59 to 61 days from planting. Seed is green, wrinkled and medium in size.

White Marrowfat

Vines hardy, strong, vigorous and bearing broad thick leathery pods near the top of the vine, and containing peas of a poor quality. Height 45 to 50

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inches, foliage light green in color, pods 3 inches long, blunt and light green. Ready to pick 69 days from planting. Seed large, smooth, white.

Dwarf Gray Sugar

The old variety of the edible-podded sort, and is used in no other way. Grows about 2 feet high and is remarkable for its earliness. Pods are broad, flat and crooked and contains 5 to 6 peas. Seed is brown and wrinkled.

PARSLEY

Double Curled

The standard sort for outdoor culture, also highly prized by market gardeners for the greenhouse.

Plain

Leaves flat, deeply cut but not curled; often preferred on account of the very dark green color as well as the hardness of the plant and its superiority for flavoring. The curled sorts are more extensively used for garnishing.

PARSNIP

Hollow Crown

Roots long, white, smooth, tender, sugary and of most excellent flavor. Very hardy, and will keep through winter without protection.

PEPPERS

Long Red Cayenne

A long, slim, pointed pod, and when ripe, of a bright red color. Extremely strong and pungent.

Red Chili

Used in the manufacture of pepper sauce.

Large Bell or Bull Nose

A very large sort of inverted bell shape, suitable for filling or for a mixed pickle. Flesh thick, hard and less pungent than most other sorts.

Sweet Mountain

Plants very vigorous and productive, growing upright, with moderately large leaves. Fruit very large, long, often 8 inches or more in length, by 2 inches in diameter.

Ruby King

An improved American sort, reaching the largest size, yet retaining the symmetrical shape of the smaller sorts.

Golden Dawn

In shape it resembles the popular Bell or Bull Nose pepper. It is of a most beautiful golden yellow color, making a very handsome appearance, both in growth and upon the table.

PUMPKIN

Sugar or Pie

A rather small, but handsome variety. Shape, round; skin deep orange colored; flesh fine grained, sweet-flavored; superior for pies.

Connecticut Field

The hardiest of all pumpkins; cultivated mainly for stock-feeding, producing enormous crops.

Mammoth Potiron

The flesh and skin are of a bright golden yellow color. Flesh fine grained and of excellent quality. This enormous variety has been grown to weigh 200 pounds.

RADISH

Scarlet Turnip, White Tipped Forcing

An, early strain of the White Tipped variety, having a short leaf and suitable to plant in the green house.

Early Scarlet Turnip

The standard early turnip radish. Fine flavored and mild.

Scarlet Olive

Very tender and a beautiful color. Early.

Early Scarlet Globe

A desirable sort for hotbed forcing and outdoors, very early; flavor mild; crisp, juicy and tender; top small; will stand heat without becoming pithy.

New Deep Scarlet Turnip

This is a very bright colored Scarlet Turnip radish, very early and short leaf, well adapted to forcing under glass. Matures in fourteen to twenty-one days, and its appearance will sell it in any market.

Crimson Giant Turnip, Turnip Rooted Forcing

A variety extraordinary in that, while growing to an unusually large size, it is always tender, crisp of mild flavor. It remains in perfect condition a remarkably long time, and unlike other forcing varieties, does not become pithy even when twice their size in diameter.

Golden Globe

This variety is of quick growth, affording crisp and tender radishes even in the hottest climate and is extensively grown in the south.

Early White Turnip Rooted

A little flatter than the Scarlet Turnip and pure white in color.

Half Long Deep Scarlet

A variety half the length of Long Scarlet and of same form.

French Breakfast

Olive shaped scarlet, with white tip; crisp and tender.

White Strasburg, or Summer Hospital

Large, showy, half long, white sort. Grows with great rapidity, sometimes producing a crop in six weeks.

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Giant Stuttgart

A summer variety. Grows to an immense size. White flesh, very crisp and tender. Of good flavor, and a good keeper.

Chartier

Decidedly distinct in appearance. The color at the top being crimson, running into pink about the middle and from thence downward it is a pure waxy white.

Early Long Scarlet, Short Top

This bright scarlet, small topped sort is about six inches long, is uniformly straight, smooth, brittle and crisp, and is a standard and excellent sort for private gardens or market use.

White Icicle

This handsome white variety is becoming very popular. It is similar to White Vienna but is not so long, is earlier and has a shorter leaf. We recommend it as a profitable, early variety where a long white sort is desired.

Long White Vienna, or Lady Finger

A very excellent white variety with long, very smooth white roots, which are crisp and tender. It comes into use shortly after Wood's Frame and is one of the most desirable of the white summer sorts.

Rose or Scarlet China

Roots cylindrical, or largest at the bottom, tapering abruptly to a small tap. Skin very smooth and of a bright rose color; flesh firm, crisp, tender and quite pungent.

Long Black Spanish

One of the latest as well as hardiest of the radishes; an excellent sort for winter use.

White China or Celestial

A comparatively new variety which is popular wherever known. The root is long, cylindrical, with beautiful white skin and flesh so white as to attract attention, even among the other white varieties. The flesh is very tender and of excellent quality.

SALSIFY**(VEGETABLE OYSTER)**

The long white tapering root of salsify resembles a small parsnip, and when cooked is a good substitute for oysters, having a very similar flavor.

Large White

The common variety; roots medium sized, smooth; flesh white.

Mammoth Sandwich Island

This is in every way superior to the Large White, being larger, stronger growing and less liable to branch. Invaluable to market gardeners.

SPINACH**Savoy Leaved**

The earliest variety and one of the best to plant in autumn for early spring use. Plant of upright

growth, with narrow pointed leaves which are curled like those of Savoy cabbage.

Round Summer Broad Leaved

This variety is generally preferred in the North for early spring sowing, and is the most popular with our market gardeners.

Prickly Winter

A very hard variety and will withstand the severest weather with only a slight protection of leaves or straw.

SQUASH**Giant Crook-Neck**

This strain is a great improvement on the old variety of Crook-neck. It is larger and better in every way.

Mammoth White Bush

This variety is a selection made from the Early White Bush; the improvement consists in size of the squashes it produces.

Early White Bush or Patty-Pan

Is earlier than any other variety of dwarf habit and very productive. Summer Squashes should always be used when young and tender, which can be determined by an impression of the nail.

The Hubbard

Cannot be too highly extolled as a Winter Squash; it boils smooth and dry, is of very rich quality, and keeps as solid as a rock. It is more popular with private growers than any other variety.

TOMATO**Stone**

Large, smooth, solid, scarlet, highly recommended.

Livingston's Perfection

Identical with Paragon.

Earliana

Vine similar in growth, maturing bulk of crop as early as Atlantic Prize, but the deep scarlet fruit is larger, distinctly smoother, solid and of very good quality. Early, smooth and of a large size it is a particularly profitable tomato for market gardeners.

Livingston's Beauty

Large, solid, smooth; purplish pink.

Livingston's Favorite

Bright red, smooth, of good size.

Ponderosa

A purplish pink tomato of largest size. Vine vigorous and very productive. Fruit very solid, fairly smooth and considered of very good quality, especially by those who prefer a tomato quite free from acid.

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Yellow Pear

Pear shaped; yellow.

Strawberry or Husk Tomato

Plants of low-spreading growth and immensely productive. The small yellow fruits are each enclosed in a husk. Of very sweet flavor, highly esteemed for preserving or making pies.

Red Pear-Shaped

This is a leading favorite for preserves and also to make "tomato figs." The fruit is bright red, of true pear shape, and of rich distinct flavor.

TURNIP**Extra Early White Milan Turnip**

The Purple Top Milan is one of the most popular turnips for spring sowing, but in this new sort we have a splendid extra early turnip in which the extreme earliness, small top and tap root of the Purple Top Milan is united with clear white skin and flesh.

Early White Flat Dutch

An excellent garden variety. The best for spring sowing.

White Egg

Belongs to the class of quick growing fall turnips, and for this purpose should be sown, in this latitude, between August 10 and 25.

Purple Top White Globe

An early variety. Globe shaped; heavy cropper. In other respects similar to the Red Top Strap Leaf. A handsome looking bulb, and is rapidly taking the lead of all other varieties of early turnips for market garden purposes.

Purple Top Strap Leaf

Rapid grower and mild flavor, the most popular variety for early use, either for the table or stock.

Cow Horn

This variety is pure white except a little shade of green at the top, and is carrot-like in form, growing nearly half out of the ground, and slightly crooked.

Sweet German

This variety is very popular in many sections, notably so in the New England states.

CLOVER SEED

(Common Red)

Iowa and Wisconsin Grown Seed

Wisconsin is now producing the finest Clover Seed. Local conditions in Iowa for three years have not been favorable for the production of fancy or even choice seed.

When you buy your seeds from us you run no risk. If not entirely satisfactory on receipt you may return them at our expense and money paid for them will be refunded.

PLEASE NOTE—Prices of Clover and Timothy are subject to fluctuations of the market. Buy-

ers should write for firm and lowest price before buying, which we quote by return mail. Then there is sure to be no misunderstanding.

Mammoth Clover

50c per bushel higher than Common Red—same grades.

Alfalfa Clover Seed

Our seed is raised on non-irrigated land and is better adapted to this part of the country than seed from the irrigated parts.

The great bulk of American seed is grown under irrigation and does not possess that vitality in adjusting itself to normal conditions that seed does where grown under natural conditions. We purchase all our seed direct from the growers in southern central Nebraska and northern Kansas and know what we are getting; therefore you can rely upon seed you get from us being grown under natural conditions and of the best quality that can be produced.

South Dakota Alfalfa

The remarkable success which followed our sales of South Dakota grown alfalfa last year proves conclusively that their is something in the claim that alfalfa grown on the dry land of that arid region will stand our changeable climate, better than western or southern grown seed. We sold much of this seed last year all from recorded fields where it had been grown from 16 to 24 years and never failed, and where it was subject at times to 45 degrees below in winter and as high as 116 degrees of heat in summer. Every bushel we sold last year was from recorded fields and the results have been more than satisfactory. We will have in stock this year seed from the same localities. Prices on application.

White Clover

(Crop Almost a Failure.

By rail, 50c per lb.

Alsike or Swedish Clover

A very hardy clover Perennial. On rich, moist soils it yields an enormous quantity of hay or pasturage, but its greatest value is for sowing with other clovers and grasses, as it forms a thick bottom and greatly increases the yield of hay; cattle prefer it to any other forage. The heads are globular, fragrant and much liked by bees, which obtain a large amount of honey from them. Sow in spring or fall at the rate of six pounds per acre when used alone.

Sweet Clover (Melilotus Alba)**White Blossom**

Sweet Clover has been attracting attention during the last few years until the seed seems to be in greater demand. In fact the seed is very high again this year. A few of the reasons why the sweet clover crop is valuable are:

1. It grows readily on most all soils and locations.
2. It has the same sort of bacteria laden nodules as alfalfa and inoculates a farm for that crop. If alfalfa does not do well on your farm try sweet clover first.
3. Sweet Clover brings land up rapidly to a high state of fertility and fits it not only for alfalfa but for crops of all kinds.
4. It can be pastured while alfalfa cannot, and stands pasturing better even than red clover.

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5. Cattle and hogs both very soon acquire a taste for sweet clover and relish it and thrive on it.

6. At the Iowa Ex. station it outclassed red clover in its stability to carry more hogs and to furnish green pasture for a longer period.

TIMOTHY

Choice Iowa Grown Timothy

Our seed is absolutely pure, bright, beautiful seed; we take pride in our Timothy seed. Sow 12 lbs. per acre. Cut in bloom.

Market prices are so fluctuating we do not undertake to make firm prices beyond present stocks, which are at present sufficient under ordinary conditions to meet the requirements of our trade.

BUCKWEAT

Japanese Buckwheat

This is larger than the common variety.

GERMAN MILLET

Northern Grown Millet

Best for rich land, but produces fine hay on poor soil.

Southern Grown Cultivated

On good, rich soil, it will make a growth of 4 to 5 feet high, although the hay may seem coarse yet it is so tender that if cut at the right stage, which is when in full bloom, even the hogs will eat the cured hay quite greedily. A yield of 5 tons of hay per acre is nothing unusual. Sow 3 pecks per acre.

Nothing pays better for a stock raiser and dairy farmer than a few acres of Millet of some kind, for it is of the greatest feeding value and milk producing quality, and yields at least again as much of the most delicious hay per acre as timothy and clover. It should be sown regularly every year, and not merely as a catch crop. When spring is so unfavorable that other crops fail to grow, or when the season is so late and wet that other crops will not mature any more, then there is always the greatest demand for millet. Write for lowest prices stating amount wanted.

Sorghum (Sugar Cane for Fodder)

The greatest of all forage and fodder plants. It will yield two crops of fodder and a good fall pasture in one season. Roots deep into the sub-soil and stands drouths that often destroy other crops. As a rough provender it is unsurpassed. Sow 1 to 2 bushels per acre.

As a Pasture and Fodder Plant it beats everything. It is extremely profitable for this purpose as the cane can be cut and partly cured, and in this way yield from 15 to 20 tons of magnificent fodder to the acre. For fodder, cut as soon as the blossoms come out of the head. Leave for two or three days on the ground, and then put up in shocks of about one load each. It can be cut repeatedly and springs up quickly again.

Kaffir Corn

This is especially desirable for planting where the summers are hot and dry. The stout stalks grow stiffly erect from six to ten feet in height.

The stalks and blades cure into good fodder and are also desirable to furnish green forage during summer months. The seed is borne in a loose branching head ten to twelve inches in length at the top of the stalk. On good land Kaffir Corn will yield fifty bushels per acre. The seeds are esteemed for feeding to both stock and poultry.

Mammoth Russian Sunflower

Sunflower seed is one of the best egg producing foods for poultry. It can be sown any time before the middle of July. Plant in hills $3\frac{1}{2}$ to 4 feet apart each way, or in drills. Six quarts will sow an acre. Seeds are the best of food for poultry, and is much cheaper to raise than corn. Price: Large pkt., 5c; 1 lb., 20c; 3 lbs., 55c. By freight, 10 lbs., \$1.00; 1 bu. or 25 lbs., \$2.25.

COWPEAS

Good cowpeas hay is fully as valuable a feed, pound for pound, as red clover hay, and very nearly equal in value to alfalfa or to wheat bran. The principle value of this hay lies in its high percentage of digestible protein, which is nearly four times that of timothy hay.

When grown for hay production cowpeas are nearly always broadcasted or put in with a grain drill any time from May 15th to July 15th. The quantity of seed used to the acre ranges from one to one and a half bushels when drilled, broadcasted requiring from one and a quarter to two bushels. The quantity most commonly used and which gives the most general satisfaction when the seed is put in with a grain drill is decidedly superior to broadcasted. The practice of broadcasted on small grain stubble and plowing under the seed is still common; also that of putting in the seed or grain stubble with a disk drill without plowing. Both of these practices are rapidly being replaced by good preparation of the soil before seeding.

Varieties

The varieties more commonly used are Whip-poorwill, New Era and Black.

We endeavor to keep a full stock up to 10th of July. On application we will send you an interesting circular on this subject.

Write for prices on Cowpeas; we will make you delivered prices.

SEED POTATOES

Red River Grown Seed Potatoes

In order to secure the best possible yields, combined with the best quality, there is no crop grown that change in seed is so essential as in seed potatoes. There is a world of difference between Northern Red River grown potatoes and eastern or those grown along the lakes.

We ship our seed potatoes in the spring as soon as danger of freezing is over, so they will arrive in plenty of time for planting. All orders for potatoes are acknowledged as soon as received and forwarded the first day that we feel that it is safe to start them. When shipment is ordered otherwise, shipment is made at purchaser's risk and we assume no responsibility on account of freezing. We do not charge for bags, boxes or barrels. All potatoes are carefully packed and delivered to the railroad company in good order and condition, then our responsibility ceases.

Write for prices on Potatoes.

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Hammond's Slug Shot for Cabbage Worms

Hammond Slug Shot

has never been known to fail in destroying leaf-eating insects. The composition is a dust strongly impregnated with fungicides, and in all the years of its use no harm has come to man, beast or fowl, through its use upon Potatoes, Currants, Cabbage, Roses, Bushes or Tree, for it kills or drives off larvae of all sorts, Slugs or Caterpillars. Put up in handy packages of 5 lb. each. Price delivered to you by mail, local 40c; 1st zone or 50 miles,

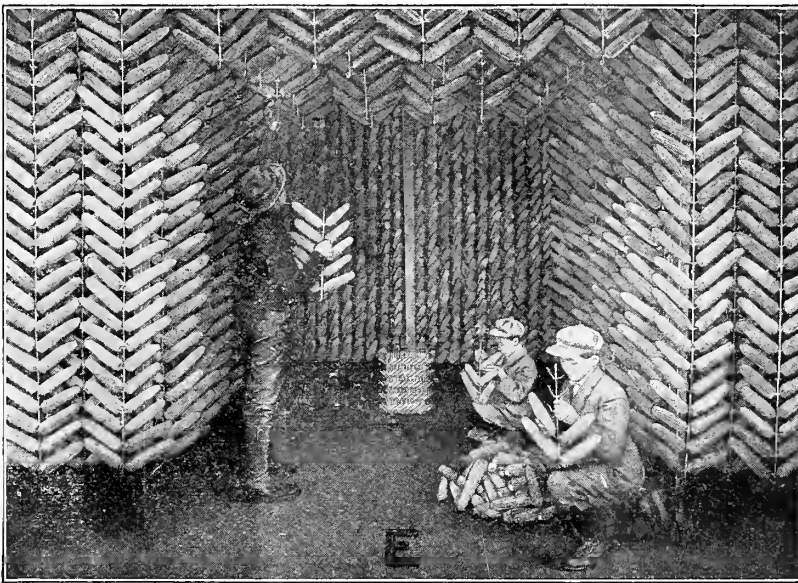
50c; 2nd zone or 150 miles, 56c. Full instructions with each package. If you save a bushel of potatoes you pay for the 5 lb. package.

Hammond's Slug Shot was made to kill potato bugs. It will kill currant worms, gooseberry worms and mildew. No lice on chickens where Slug Shot is used, or lice on calves and cows.

BIRD SEED

We are the only firm in this city who carry a fresh stock at all times of Hemp, Rape, Canary and Sunflower Seed. We are prepared to sell in wholesale or retail quantities. We also keep a supply of Cuttle Bone.

CORN



A Corner in Our Seed Curing Warehouse

Good Seed Corn

One of the most important questions before the farmer today is to get good seed corn, that is, a seed of **standard variety**, of high yield, early and sound maturity.

We offer you seed corn which we know answers these requirements. We have Funk's Yellow Dent and Reid's Yellow Dent in yellow, Boone County Special and Iowa Silver Mine in white. These varieties are selected from prize winning corn and we guarantee the purity of the stock. We do not offer a dozen or more varieties but confine ourselves to four that we can stand behind. **All our Seed Corn is on the ear**—when you buy it that way you can see that you are getting what you pay for. We offer no seed corn but what will germinate 95% or over. It will pay you to change your

seed corn this year, even if you have corn that will grow. Write us for close prices on quantity.

Remember—In counting the cost of Seed Corn, one bushel of corn will plant seven to eight acres. The cost per acre of our pure bred varieties is less than 50c per acre. Only one bushel per acre increased yield more than pays all cost of seed. The commonest mongrel scrub corn costs you something. The corn we sell you is not only selected seed, but is pure bred and has been carefully handled, dried and cured as seed corn should be. A bushel of seed corn that increases your yield ten bushels per acre, makes you at the rate \$35.00 per bushel. Hence, don't forget that if you plant seed that lowers your yield this much it has cost you \$35.00 per bushel. Prices for above choice varieties on the ear **\$3.50** per bushel. This includes bags or boxes when shipped by freight.

LUTHER BURBANK'S SEED

Luther Burbank's Seeds

The following list of flower and garden seeds comprise what we have in Luther Burbank's stock. Of course some of these are not Luther Burbank's productions, but they are seed from carefully selected stock by the Luther Burbank Co. and all bear the Luther Burbank trade mark seal on every package. These seeds are sold at 5c, 10c and 25c per packet. In addition we have a collection of one dozen packets for \$1.00. See note elsewhere.

A Luther Burbank Garden for \$1.00

Burbank's Own Selection of His Own Seeds
12 Packages for \$1.00

Enough for a garden of extraordinary character and beauty—a genuine Burbank garden. These seeds are of highest quality.

An unique and acceptable present to your friends. Everyone enjoys rare and beautiful flowers. We will mail, postpaid, this unusual collection of Luther Burbank seeds to any part of the world for \$1.00.

VEGETABLE SEEDS

Corn—Rainbow
Giant Pepper
Tomato—Early
Beans—Ky. Wonder
Beets—Blood Turnip
Cabbage—Jersey
Wakefield
Cabbage—Flat Dutch
Carrot—French Foreign
Carrot—Half Long

Celery—White Plume
Cucumber—White
Spine
Lettuce—New York
Lettuce—Grand Rapids
Muskmelon—Rockyford
Watermelons—Kleckley Sweet

Onions—Yellow Danvers
Onions—White Portugal
Parsley—Moss Curled
Parsnips—Hollow Crown
Pumpkin—Pie
Peas—American Wonder

Peas—Telephone
Radish—Long Scarlet
Radish—Scarlet Turnip W. T.
Squash—Hubbard
Squash—White Bush Scallop
Turnip—White Globe
Turnip—White Flat Dutch

FLOWER SEEDS

A. O. Daisy
Beans—Crazy
Swiss Chard
Giant Calendula
Cassaba
Candytuft
Caliopsis—Tiger
Coreopsis Grandiflora
Coreopsis Golden Wave
Cosmos Lady Lenox
Centurea Cyanus
Centurea Marguerite
Delphinium

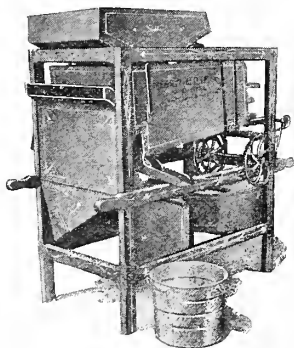
Dianthus Imperialis
Dimorpotheca Hybrids
Eschscholtzia Hunnemannia
Eschscholtzia Hybrids
Eschscholtzia Crimson
Eschscholtzia Fire
Flame
Eschscholtzia Carminea
Euphorbia
Gaillardia
Godetia
Morning Glory

Nicotiana
Dwarf Nasturtium
Burbank Poppy
Horned Poppy
Evening Primrose
Salpiglossis
Scabiosa
Schizanthus
Shasta Daisy
Sweet Sunberry
L. S. Sweet Peas
Sunflower
Verbena
Giant Zinnia

L. R. R. H. Zinnia
Sweet Peas—Spencer Mixed
Wild Flower Garden
Phlox
Stock
Mignotte
Nasturtium—Tall Mixed
Pansies Mixed
Alyssum
Asters—Mixed
Gourds—Mixed

THE FISH SEPARATOR

A Few
Facts
Regarding
the
Fish
Grain
Separator



It runs by hand or engine power.

It is the most substantial and compact machine on the market, occupying a floor space 2x4 ft. and will go through a door 2x8.

It is the only machine which grades all seeds perfectly and has the largest capacity of any seed grader on the market.

It makes a separation which is impossible for other machines to make.

It cannot clog or get out of order.

Our air is perfect for we have an automatic control.

It grades all seeds from blue grass to lima beans.

It separates sour dock and wild buckwheat from clover seed, which is impossible in other machines.

Send for descriptive circular and ask for prices. This is the Separator you want for general farm purposes.

We are in a position to make you a low price on this Separator this year.

STANDARD HAND SEEDERS

By close comparison in the field with the different varieties of seed, such as lettuce, radish, onion, beet, peas, etc., Standard Seeders have proved themselves equal and in many cases exceed all other similar tools in the distribution of seed evenly either in hill or drills.

The agitator on the shaft that runs through the hopper, stirs the seed and keeps a supply constantly fed to the revolving brush, which brush gently but positively feeds the seed through the opening in the bottom of the hopper. This is what we term our double agitator feed, which is not injurious to the seed and sure to feed. The revolving brush is entirely cased over, which protects the bristles and reduces any unnecessary wear on them.

The coverer is the swinging pattern that does its work well and adjusts itself to inequalities of the ground.

Standard Seeders also have less parts than any similar tools made. Fewer parts would mean less complication, less trouble and a more satisfactory tool.

Standard No. 11 Hill and Drill Seeder—This is the No. 9 tool set up as a hill and drill seeder and known as No. 11. Weight packed, 44 lbs. List price, \$9.00.

No. 9 Hill and Drill Seeder and Double Wheel Cultivator complete with all attachments, packed weight, 58 lbs. List price, \$12.00.

No. 10 Hill and Drill Seeder and Double Wheel Cultivator, packed with hoe blades only; weight 47 lbs. List price, \$10.50.

Seed planted with Standard Seeders is in perfect condition to cultivate to the best advantage after the plants are up.

WHERE DO YOUR APPLES GO?

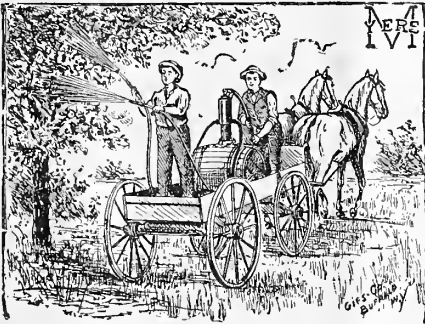
The time has passed when good fruit can be produced with little or no attention to the growing. Now fruits are good or bad, the extent of either depending on the methods of culture and

care you adopt. To obtain the better grade you must spray systematically and Sherwin-Williams Insecticides will give satisfactory and economical results.

Lime Sulphur Solution—For spraying mix one gallon to ten gallons water. Price for 50 gal. bbl., \$10.00; 5-gal can, per gal., 30c; 1-gal. can, each, 50c; ½ gal. can, each, 40c; ¼ gal. can, each, 30c; special prices on 10, 15 and 20 bbl. lots.

than paste form. Follow directions on can. One pound to 8 gallons of water.

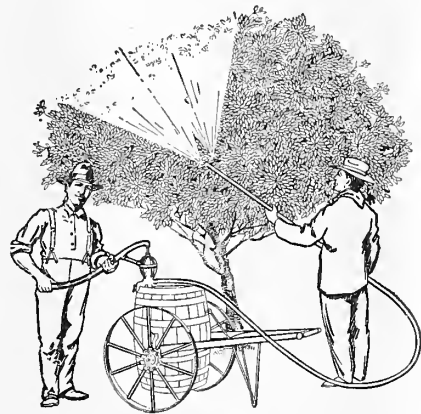
Paris Green—Ask for prices.



Arsenate of Lead—Sherwin-Williams' dry powdered; easier to handle and goes twice as far as paste form. For wet spraying use 1 to 2 pounds to 50 gallons of water.

For dry dusting use just as it comes from the package.

Bordeaux Mixture—Sherwin-Williams' dry powder, easier to handle and much cheaper in the end



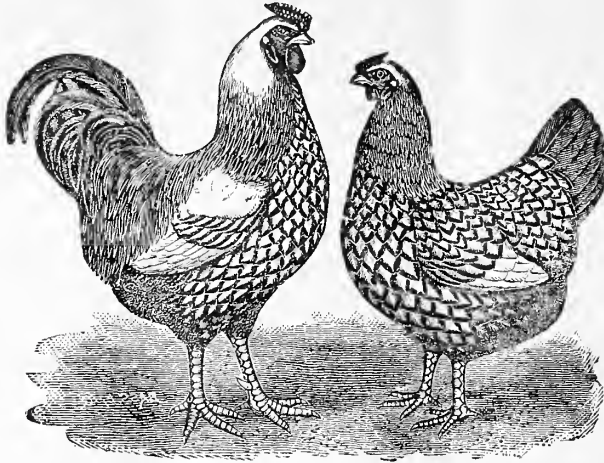
More and Better Fruit

No matter if you have one or a dozen trees, it doesn't pay to grow wormy or scarred fruit. You can have clean, well-colored fruit for your table or the market with but a slight effort and small expense. Systematic spraying is the remedy and it pays a big dividend if you use good materials—S-W Brand.

Kill the Bugs—Increase Your Profits

It is just as important to spray your vegetables as it is to cultivate them. Spraying will effectually control troublesome insects and fungus diseases, increasing your yield and the quality. Spray them with Sherwin-Williams Insecticides and Fungicides.

POULTRY SUPPLIES



STANDARD CYPHERS INCUBATORS

Hatch Strong, Vigorous Chicks and Lots of Them

Poultry Raising for profit is no longer a "pin money" affair. Today it exists in one of three forms—as an important branch of farm work, or as a regular business, or as a money-making side line for the villager, the suburbanite or city dweller.

In whichever class you may be, Reader, we claim that you should "mean business"—that you should have the right kind of tools with which to do your work, because your success is going to depend in large measure on the equipment you provide, and especially on your choice of incubators.

Buying an incubator is different from buying any other article in common use. A farm wagon, a piece of household furniture or a jack knife, if of "cheap" make and inferior quality may answer the purpose for awhile and should last some time, but with an incubator (or a brooder) it is different—decidedly so.

And the reasons are plain. An incubator deals with the life principle! It must be relied on to do the delicate work of producing a living organism—a complete chick or duckling in perfect health, with all the vitality nature requires.

This matter of "vitality" in chicks is of the very highest importance. Here lies the Secret of Success, or a hidden rock upon which an otherwise well-planned poultry venture will meet with failure and heavy losses.

It is not alone the question of "how many" chicks, but also of HOW GOOD—of how strong, vigorous and healthy they are—how well hatched.

The hen knows how to produce the right kind of chicks. Nature has taken care of this—but it is the regrettable truth that vast numbers of incubator chicks are hatched every season which stand no show whatever of living to market age, on account of the flimsy, ill-constructed "boxes" in which they are "coaxed" into life. An incubator, to do its work right, must meet all of nature's requirements—it must not stop half way.

We could easily fill this catalogue with reports from pleased and satisfied Cyphers Company customers, treating on this one point alone—of the ease with which they are able to hatch large per-

centages of big, vitally strong and perfectly healthy chicks and ducklings in the Standard Cyphers.

Thousands of breeders—the most successful in all the country—have been hatching their most valuable eggs in the Cyphers year after year—staking their very business existence on the results secured. It is incredible that they would do this if they did not absolutely know that the Cyphers is the best and most reliable hatcher to be obtained.

Do Not Waste Time and Money on Poor Incubators

Poor hatches mean small profits—or none at all. It is not the first fifty chicks you hatch out of each one hundred fertile eggs that will give you your profits—it is the number of good, healthy, vigorous chicks above fifty that must be relied on to make your poultry work a success.

Any well-made, high-grade incubator should last and do excellent work for at least ten years. To learn the actual cost therefore, that must result from the continued use of inferior, low-grade hatchers, you will need to multiply the "cheap" incubator losses by ten—yes, by more than ten, because flimsily-built machines will go entirely out of service within one to three years.

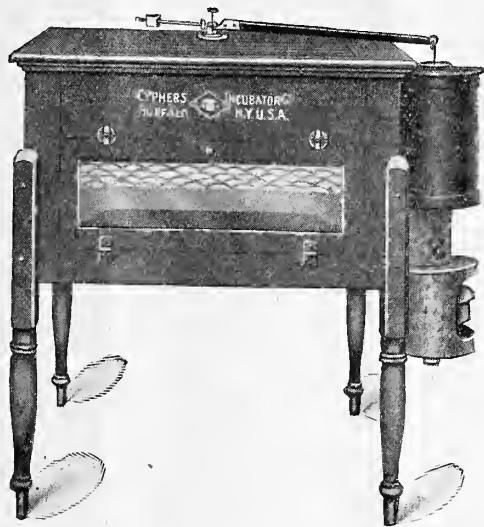
As manufacturers of high-class goods—of incubators, brooders and general poultry supplies, every one of which is guaranteed to do satisfactory work, we believe we are justified—that it is a part of our duty to warn intending purchasers not to risk the success of their poultry ventures, small or large, by the use of "cheap" incubators or worthless, death-trap brooders. And we regret to say that such articles are on sale—plenty of them.

If you are going to use an incubator at all, buy a good one—the best to be had. If you decide that you would like to own a Cyphers, we urge you to buy it first—not after you have tried some "cheap" machine and met with discouraging losses. When you buy one cheap incubator and discard that and buy another that is no better, you are overpaying the Cyphers price, without getting Cyphers results and satisfaction. Thousands have made that mistake—and have told us so.

Far too many poultry raisers are trying hard

to get ahead by the use of poor equipment. To men and women in that position we can say only: Do not continue to **worry along**, fighting against heavy odds. If you own a type of incubator that is not turning out **plenty of chicks**—the kind “with the kick in them,” the kind that grow rapidly right from the hour they are hatched—**buy a Cyphers**, any size you like, and test it **one season** alongside of the other kind. For you to do this will mean a great deal more to you than it can possibly mean to us.

Cyphers Standard Incubators



No. 1

144-Egg Capacity

PRICE LIST OF STANDARD CYPHERS INCUBATORS

Fire Proof—Insurable

No. 0 Incubator—Capacity about 70 Hen Eggs	\$15.00
No. 1 Incubator—Capacity, about 144 Hen Eggs	23.00
No. 2 Incubator—Capacity, about 244 Hen Eggs	34.00
No. 3 Incubator—Capacity, about 390 Hen Eggs	40.00

We supply an X-Ray Tester, a tested Standard Cyphers Incubator Thermometer, and our booklet, “Direction for Operating and Hints to Aid the Operator,” packed in every incubator.

INCUBATORS ARE BETTER AND CHEAPER THAN HENS

Let us compare the use of a first-class incubator with the work of hens for **hatching purposes**. Of course on big poultry plants—either chicken or duck ranches—hen hatching is out of the question, because **enough broody hens** to do the work could not be secured at the right season of the year. But how about the use of incubators by farmers, villagers, etc?

We state on a thorough knowledge of the subject that if the best results—if the highest prices and largest profits are to be secured by the use of one, two, three or half a dozen incubators owned and operated by the farmer, his wife, son or daughter, or by anyone else who is conducting a small or moderate-sized poultry business, the hen should be used only for the production of fertile eggs—in which work she has a monopoly and is indispensable.

As is well known, the usual number of eggs entrusted to a broody hen is thirteen. At this rate it

will require exactly thirty hens to take care of the number of eggs that one No. 3 Cyphers Incubator holds—390. In the first place, to get hold of thirty broody hens is practically impossible in December, January or February, except in warm climates, and to obtain this number would be a difficult matter even in March and April—for the average poultry raiser.

Then there is the labor, losses and inconvenience of caring for thirty “sitters”—in feeding and watering them, in letting them off the nests and seeing to it that they go back on the right nests, in keeping them from fighting and from breaking one another's eggs, in dusting them for lice, in cleaning the soiled eggs and removing the broken ones, in replacing sick hens and in attending to a dozen other annoying things that are certain to arise—not to mention the out-of-the-way place or places where this work is to be performed.

But with a first-class incubator all this work and worry is not merely “reduced to a minimum”—it does not exist. Positively, ten minutes in the morning and five minutes at night will give a Cyphers Incubator (any size, No. 0, No. 1, No. 2 or No. 3) all the care and attention it requires—ten minutes in the morning for turning the eggs, filling the lamp and trimming the wick, and five minutes at night to visit the machine, air or turn the eggs and satisfy yourself that everything is in good running order.

A well-ventilated house cellar or ordinary basement is still the best place in which to operate one, two or half a dozen incubators, provided the machines are fire-proofed and insurable. The next best place usually available is a living room—an unoccupied room preferred, though many Cyphers Incubators are run with complete success in rooms used daily by the owners. Attending to an incubator—or two or three incubators—right in the house, is a very different matter from having to face all kinds of weather in looking after thirty or more sitting hens in outbuildings located some distance from the dwelling. This difference applies with special force if women do the work.

That a Cyphers Incubator will do better hatching, season in and season out, than can be done with hens, and that the use of Cyphers Incubators is far more satisfactory than the hen-method, has been testified to by thousands of our customers. Today many of these people would retire from the poultry business or would stop raising chickens in profitable numbers if they were compelled to give up their Cyphers Incubators and Brooders and go back to hatching and rearing with hens.

Superior Incubators

HOT WATER VERSUS HOT AIR

No doubt there still are many prospective buyers of incubators who believe that hot water is a better or safer “heating element” for an incubator than is hot air. To meet this demand Cyphers Incubator Company now manufacturers, in two sizes, the strictly high-class, copper-tank, wooden-case, double-wall, self-ventilating and self-regulating **Superior Incubators**. These handsome and well-built machines are warranted by us to be just as represented and, notwithstanding low prices, we positively guarantee them to do uniformly good work when operated according to directions.

Price of small-size Superior Incubator, capacity, 65 eggs, complete.....\$12.00
(Shipping weight, 43 lbs.)

Price of large-size Superior Incubator, capacity, 130 eggs; complete.....16.00
(Shipping weight, 68 lbs.)

Columbia Hot-Air Incubators

Columbia Hot-Air Incubators are made in two sizes. The smaller size holds 140 average-sized

hen eggs, and the larger machine holds 250 averaged-sized eggs. These machines are warranted to hatch duck eggs as well as hen eggs, having ample range of ventilation.

The picture shown herewith, shows the Columbias just as they are—attractive in appearance, substantial in construction and built by experienced, painstaking workmen out of first-class materials. As is true of the Cyphers Company Hot-Water Superior Incubators, so also with these larger capacity Hot-Air Columbias, there is nothing "cheap looking" or crude about them. They look "every inch an incubator" and represent better value for the money than can be obtained in any other popular-priced "hatching machine" on the market.

The cases of the Columbia Incubators, except the fronts and bottoms, are of three-ply, veneered wood, the middle layer running crosswise of the other two, and the three thicknesses are solidly cemented (not glued) so they cannot warp, crack or split under the action of heat and moisture. The fronts, including the door frame, are of one-inch-thick selected white pine and the bottoms also are of pine. These all-wood cases are far better non-conductors of heat and cold than metal cases and they make a much handsomer incubator.

Both sizes of Columbias are equipped with regular Cyphers zinc-and-steel, toggle-joint standard regulating device, the same exactly as has been used on Cyphers Incubators for years with worldwide success. With reasonable care entire regulating device will last a life-time and continue to do its work. Every part is expertly made by long-experienced workmen in the Cyphers Company factory, using special machinery. Brass is used at all points where iron rust would interfere with accuracy and long life. The value and reliability of the Standard Cyphers regulator for incubator use are far above the ether-disc regulators usually furnished in popular-priced machines.

Columbia Incubators are both self-ventilating and self-regulating and when operated under normal atmospheric conditions they do not require supplied moisture. Please read the plainly worded guarantee.

Prices

Small-size Columbia Incubator, capacity 140 eggs, complete	\$16.00
(Shipping weight, 83 lbs.)	
Large-size Columbia Incubator, capacity 250 eggs, complete	22.00
(Shipping weight, 114 lbs.)	

MANUFACTURERS GUARANTEE

Under Which Superior and Columbia Incubators are Sold

That they are expertly built, using only first-class materials and are attractive and durable in finish.

That with proper care they will last for years and continue to do the work required of them.

That they are self-regulating and self-ventilating and that when operated under normal atmospheric conditions they do not need supplied moisture.

That the chicks or ducklings, hatched in these self-ventilating machines, if well-fertilized eggs are used, will be large, fluffy and vigorous.

That when operated according to our printed directions, in any suitable place, these machines (both styles, all sizes, will do better hatching than any other make or makes of incubators on the world's markets that sell at as low prices as are charged by us in our catalogues and other printed matter for these machines.

CYPHERS INCUBATOR COMPANY.

Cyphers Outdoor Brooders



Cyphers Style B Outdoor Brooder

Fire Proof—Insurable.

Three-apartment, Combination Outdoor Brooder and Colony Roosting Coop. Self-ventilating and self-regulating. Built throughout of seven-eighths inch thick lumber. Floors of hover and exercising apartments on same level. Large, single-pane, 12x18-inch windows with substantial frames. Double doors to exercising apartment for ready cleaning, and wire-protected for summer ventilation.

Style B Brooder is practically automatic in operation. It is both self-ventilating and self-regulating and takes care of itself, day or night, like a Standard Cyphers Incubator. The chicks entrusted to it require attention only as often as they need to be fed or watered.

Price—Cyphers Company Style B Outdoor, self-Regulating, Self-Ventilating, Three-Apartment Combination Brooder and Colony Roosting Coop, equipped with Adaptable Hover, complete, \$18.50

Weight, safely crated, about 200 lbs.

The Cyphers Style A Outdoor Brooder is recommended for use of poultry raisers who feel that they do not wish to invest in the larger-sized and higher-priced three-apartment outdoor brooders.

Price—Cyphers Company Style A Outdoor, self-Regulating, Self-Ventilating, Two-Apartment Combination Brooder and Colony Roosting Coop, equipped with Adaptable Hover, complete, \$14.50.

Weight, safely crated, about 135 lbs.

Cyphers Adaptable Brooding Hover

Can be Used Almost Anywhere

This brooding device is called "Adaptable" because of the many practical ways in which it can be utilized by poultry raisers. As before stated, it is used in every style and size of Standard Cyphers Oil-Heated Brooders; it is also used with uniform success in one of the several long brooding houses on the Cyphers Company's fifty-acre poultry farm, Buffalo, N. Y., and it can be used with good results in other makes of brooders, provided the cases are not less than 2½x3 feet in floor space and 24 inches high; also as individual brooding devices in home-made cases, consisting of large dry goods boxes, organ or piano boxes; also in roosting coops; in colony houses and other portable poultry houses; also in connection with any ordinary hen house, closed shed or other out-building where a space can be partitioned or wired off for the chicks.

Cyphers Company Self-Regulating, Self-Ventilating Adaptable Hover, complete with Standard Cyphers Regulator and Tested Brooder Thermometer, safely boxed, \$9.00.

Weight, boxed for shipment, 38 lbs.

International Sanitary Hover



No crowding or smothering of chicks—no kneeling to get at the lamp. The International is portable, fire proof and vermin proof.

Price \$8.50



International 6 In 1 Exerciser and Feeder

Separate compartments supply Grain, Grit, Charcoal, Oyster Shell, Beef Scrap and Dry Mash.

The swinging pendulum drops the grain and the metal con scatters it—forcing the chickens to run after it. It eliminates all other feeding devices.

Price, complete \$3.75

Cyphers' Poultry Remedies

Cyphers Brand Nodi Charcoal

Nodi Charcoal is useful as a blood purifier and disease preventive. It is one of the best remedies for sour crop, diarrhoea and other similar digestive troubles. That is why we call it "Nodi Charcoal"—no diarrhoea where this charcoal is used.

Prices of Nodi Charcoal: 2-lb. cartons (not mailable) each, 10c; 50-lb. sacks, each, \$1.25; two 50-lb. sacks, \$2.25. (By freight or express.)

Napcreol Disinfectant

Cyphers Napcreol is a highly-concentrated preparation which can be made ready for immediate use by simply mixing with required amount of water. Is highly valuable for the disinfection of incubators, brooders, poultry houses, stables, dog kennels, toilets, sinks, or any place where a germicide and deodorant is needed.

One gallon of Napcreol makes 50 gallons of disinfectant of sufficient strength to do the work.

Prices: 1-qt. cans, 50c; half gal.-cans, 85c; 1-gal. cans, \$1.50; parcel post weights: 1-qt. can, 4 lbs.; half-gal. can, 6 lbs.; 1-gal. can, 11 lbs.

Cyphers Lice Powder

Kills Body Lice on Chicks and Fowls—Easily Applied from Our Perforated "Shaker Boxes" in Which it is Sold.

A general complaint often heard among poultry keepers was that most of the lice powders on sale did not kill the insects, but only drove them from one place to another on the body of chick or fowl; then as soon as the powder lost its strength the lice would return to their favorite feeding spots and the injury was as great as ever.

Price of Cyphers Lice Powder: 5-oz. package, (trial size) 10c; postpaid, 15c; 15-oz. box, 25c; postpaid, 40c; 48-oz. box (by express at customer's expense), 50c; 100-oz. package (by express at customer's expense), \$1.00.

Cyphers Roup Remedy—Guaranteed

A Complete Cure Guaranteed, or Money will be Refunded—Used in the Drinking Water

Cyphers Roup Remedy is the best remedy for Roup in all forms. It is thoroughly reliable and always uniform in quality and strength. Prevents and cures common colds, and for the cure of canker is without an equal.

One small-size package will make 25 gallons of roup medicine.

Prices: Small-size package, 25c, postpaid; medium-size, 50c, postpaid; large-size, \$1.00 postpaid.

CYPHERS REMEDY NO. 4 FOR CHICK DIARRHOEA

Remedy No. 4—For all diarrhoeas of poultry. It is the most reliable cure for cholera, and when used in the drinking water will cure the most obstinate cases. Valuable for diarrhoea in small chicks, especially when accompanied by a watery or a bloody discharge.

Prices: Single vials, in strong, specially prepared mailing tubes, 25c each; postpaid, 27c each.

Crys-Co Grit and Shell Producer

ITS ECONOMICAL FEATURES

Containing 99% Pure Carbonate of Lime, it makes hard eggshells, increasing the hen's laying power. The fine for little chicks builds up the bones and makes fine feathers and is excellent for pigeons. The 1% flinty matter grinds the food so necessary for the chicken's digestion.

Poultry Food and Grit

MICA CRYSTAL GRIT

Hens having no teeth should be kept constantly supplied with some sharp material to grind and masticate their food. Mica Crystal Grit is not only sharp and hard, but its properties are such that it acts as a tonic and contributes largely to the health and productive power of the fowl. We

have both hen, pigeon and chick size. State which is wanted. Price, 100-lb. sack, \$1.00.

CRUSHED OR GRANULATED BONE

Supplies the lime for shells and other ingredients necessary in the composition of eggs. Scatter about the poultry yard. 5 lbs., 25c; 100 lbs., \$3.25.

FINE BONE MEAL

Excellent to aid in increasing egg production, and a splendid feed for young chicks. Should be fed wet, mixed with corn meal or bran. 5 lbs., 25c; 50 lbs., \$1.75; 100 lbs., \$3.25.

RARVA MEAT MEAL

A valuable preparation for mixing with wet feed, supplying nitrogenous and fatty ingredients, especially in winter and spring. One lb., 10c; 4 lbs., 25c; 100 lbs., \$4.50. Subject to market changes.

Crushed Oyster Shell

The most frequent cause of hens not laying is the absence in the food of carbonate of lime. As crushed oyster shell is practically pure carbonate of lime, it supplies, when fed to poultry, the most essential element, and greatly aids in the formation of the egg.

ADVANTAGES GAINED BY THE USE OF OYSTER SHELL

It prevents cholera; it keeps the poultry healthy; it makes hens lay an egg a day; it prevents soft shell eggs; it prevents hens eating their eggs; it makes the egg shell strong enough to carry without breaking; it contains many essential components of the egg. When you buy 100 lbs. of our Crushed Oyster Shells, you get 100 lbs. of shells, not 15 to 20 lbs. of dust and dirt mixed in, as our brand is especially cleaned. To get best results in poultry raising, the use of something of this kind is positively necessary. Every poultry house or yard should have a pan or trough full, so that the fowls can have access to them at all times. Put up in 100-lb. bags. Our price, bags included, 85c.

BLOOD MEAL

Single lb., 5c; 5 lbs., 25c; 100 lbs., \$4.00.

Unmixed Grains

Prices named are those in effect on issuing of this catalogue. Subject to market change.

Prices per 100 lbs.

Wheat, price 100 lbs.....	\$ 3.00
Corn, price 100 lbs.....	1.50
Buckwheat, price 100 lbs.....	3.00
Hemp, price 100 lbs.....	8.00
Chicken millet, price 100 lbs.....	3.00
Hog Millet, price 100 lbs.....	3.00
Canada Peas, price 100 lbs.....	5.00
Sunflower, price 100 lbs.....	12.00

Cyphers Chick Food

A Complete Food for Young Chicks up to Six Weeks of Age, No Other Grain Being Required or Advisable Ration

To obtain best results in raising chicks, good equipment and proper care are not enough—the food that you give them must be right in substance, in “food values,” in actual nourishment and also must be correct in proportions so that digestion and assimilation may be easy and complete. In compounding Cyphers Chick Food the protein or flesh and muscle-forming elements are

maintained high; in fats and carbohydrates or heat and fat-forming elements are reduced to their proper proportion, and the ash or mineral elements are in sufficient amount to supply the needs of the rapidly-growing chick.

Prices: F. O. B. Muscatine, 100-lb. bag, \$2.75.

Subject to market changes.

Cyphers Scratching Food

A Balanced-Ration, Cracked and Whole-Grain Mixture That Affords Variety, Insures Exercise, Maintains Health and Promotes Liberal Egg-Yield

Exercise is absolutely necessary to promote digestion, maintain health, insure a continuous egg-yield and produce fertile eggs. Remember, that breeding fowls cannot be kept vigorous and strong by any method that does not require exercise, and plenty of it. A good scratching food fills one of the most important needs of the poultry raiser, if properly prepared.

Prices: F. O. B. Muscatine, 100-lb. bag, \$2.65.

Subject to market changes.

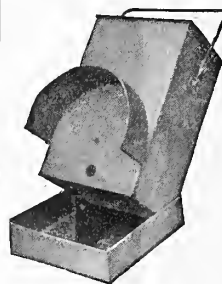
Cyphers Full-Nest Egg Food

Full-Nest Egg Food is not only an egg-producer, but it is also a standard condition powder for all ages of poultry. Full-Nest Egg Food will help your birds through their molt, make the feathers develop normally, and induce a high state of perfection in plumage. Hence begin laying sooner after molting where this egg food is used.

Prices. 42-oz. package, (not mailable) 25c; 25-lb. pail, \$2.00.

Drinking Founts, Grit Boxes, Leg Bands, Etc.

SQUARE DROP-BOTTOM DRINKING FOUNTS



These drop-bottom drinking founts are new; they are made of No. 28 gauge galvanized steel. The bottom can be swung open with one hand as it is secured by one spring in the front, while most founts have a spring on each side and therefore require both hands to open them, which is even then done with more or less trouble. The rod which extends through the hinge of the drop bottom is made of solid brass, which prevents all possibility of rusting or breaking off. This hinge will preserve the life of the fountain.

Two quarts, 50c; 1 gal., 65c; 2 gal., 85c.

ROUND BOTTOM GRIT AND SHELL BOX


Most grit and shell boxes have square bottoms, while this grit and shell box has a round bottom, which prevents the fine particles of shell and grit clogging the corners.

Can be hung on wall.

3 Compartment60c
4 Compartment75c



CELLULOID SPIRAL LEG BANDS

 provide instant identification of birds without handling, as far as you can distinguish color. They are as easily applied and removed from the bird's leg as a key from a key ring.

The band is light and durable and made in eight bright, fast colors, as follows: Red, Light Blue, Dark Blue, Pink, Black, Yellow, White, and Green. These bands are also made in four different sizes, Nos. 0, 1, 2, and 3. Every poultryman should have on hand at all times a supply of bands in assorted colors and sizes which will enable him to mark his birds so he can tell at a glance the ages, months hatched, matings, best layers, etc.

Prices, Postpaid

Size No.	For	Price Doz.	100	1,000
0	Chicks and Pigeons.....	\$0.15	\$0.85	\$7.50
1	Leghorns .....	.20	1.00	8.00
2	Rocks and Orpingtons .....	.20	1.00	8.00
3	Heavier Breeds, Turkeys, Geese, and Ducks .....	.20	1.00	8.00

Be sure to state size and colors wanted.

ALUMINUM ADJUSTABLE BANDS



can be adjusted to fit the leg of any size fowl. It locks with a double clamp, fits the leg perfectly, and, once on, stays until you remove it. They are sold in sets and numbered consecutively. The numbers are always clear and distinct. Trap-nesters and show bird breeders will readily recognize the value of this numbered band.

Prices, Postpaid

Sets Numbered	Price Per Set
1 to 12.....	\$0.15
1 to 25.....	.25
1 to 50.....	.40
1 to 100.....	.75

Otis & Mol's Top-Fill Founts, Trough and Hopper Feeders for chicks, Chick Waterers, Poultry Punches, and Egg Packages for shipping by parcel post.

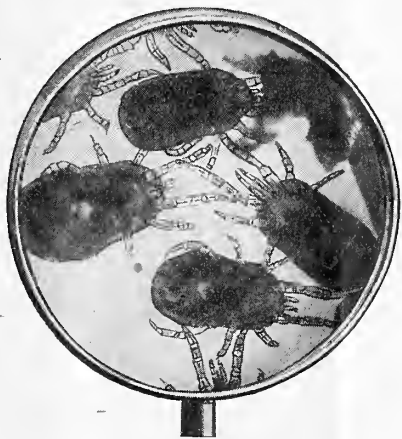
Write for Cyphers Incubator Catalogue and Poultry Book, it's free! This book of over 200 pages contains much valuable information for poultry raisers.

JAHNKE'S VERMIN TRAP ROOST

A Poultry Roost that Catches all the Mites, Spiders, Lice, Bedbugs, and all Other Bloodsucking Lice from the Fowls that Roost on It.



Neat, Clean, Light, Handy, Loose, Sanitary, Movable, Durable



Mites Enlarged by a Powerful Magnifying Lens

This picture was taken by J. B. Southall of Fairport, Iowa, with a photo micrograph.

These are the Fellows that crawl all over you every time you go into the hen house.

These are the Fellows that take the big end of your poultry profits by decreasing the egg production.

These are the Fellows that make your setting hens leave the nest.

These are the Fellows that kill your little chickens.

These are the Fellows that suck the very life blood of the fowls every night.

These are the Fellows that make every chicken weigh from one-half pound to a pound less when you come to sell it.

These are the Fellows that drive your chickens from the hen house to roost in the trees and on the fences, in order to escape their nightly torment.

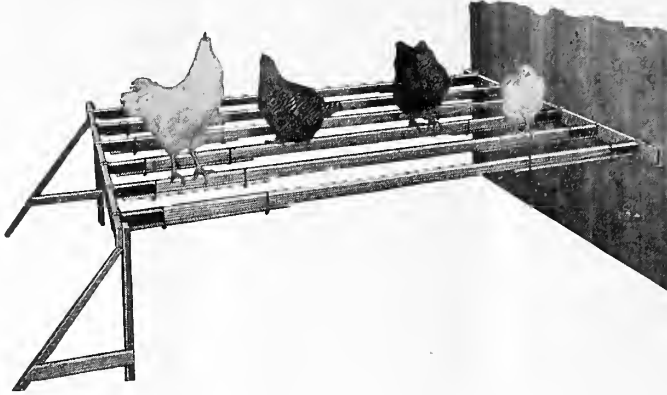
These are the Fellows that are on your chickens and in your hen house now stealing your profits, and the only way you will ever get rid of them is to let your fowls roost on Jahnke's Vermin Trap Roosts.

Price List for Single Roost Bar

The price list given below is for one Single Vermin Trap Roost Bar, and you should order enough bars of the length you want to accommodate your flock.

	Length	Capacity	Price Each
1 Vermin Trap Roost Bar	4 feet	8 fowls..	\$0.40
1 Vermin Trap Roost Bar	5 feet	10 fowls..	.50
1 Vermin Trap Roost Bar	6 feet	12 fowls..	.60
1 Vermin Trap Roost Bar	7 feet	14 fowls..	.70
1 Vermin Trap Roost Bar	8 feet	16 fowls..	.80
1 Vermin Trap Roost Bar	9 feet	18 fowls..	.90
1 Vermin Trap Roost Bar	10 feet	20 fowls..	1.00

The Vermin Trap Roosts in Use



A Bucket of Hot Water and One Sweep of a Brush or Whiskbroom does the Business No Trouble, No Expense, a Child Can Do It.

The Traps only need to be emptied once every ten days and 3 or 4 times is all that is necessary to rid your fowls and hen houses of mites, bed-bugs, spider-lice and all blood sucking lice. They are easy to kill, simply brush the lice in the traps out in a bucket of hot water or fire. Any ten year

old boy can empty the traps on a set of Roosts large enough for 150 fowls in 10 minutes.

Shipping Weight

One Single Vermin Trap Roost Bar, 8 feet long, weighs 5½ lbs. or 50 feet in any length of Vermin Trap Roosts will weigh 35 lbs., crated, and go by third class freight.

Every Roost Bar is fitted with a malleable iron flat hook at each end to fit an inch board, and is easily put in any hen house.

“SAVE-AL” Guaranteed Egg Preservative

A Tasteless, Odorless Preparation that Will Keep Fresh Eggs in Excellent Condition Six to Ten Months—One Gallon Sufficient for 65 Dozen Eggs

Save-Al positively will keep strictly fresh eggs in usable and marketable condition for ten months if it is desired to hold them that long. And it saves ALL the eggs, not merely some of them. Save-Al is easy to use and is absolutely safe and sure. One gallon makes sufficient solution to preserve 65 dozen eggs in perfect condition for 10 months. Eggs preserved in Save-Al are superior in every way to limed eggs. The solution has been thoroughly and carefully tested, and critical observers have found it difficult to detect the difference be-

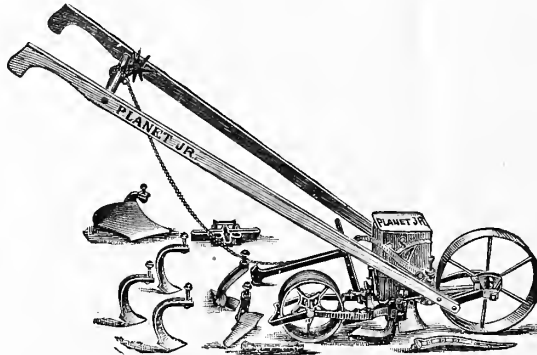
tween a fresh-laid egg purchased in the open market and eggs which had been put down in Save-Al.

We recommend the use of Save-Al to all who desire to save money by preserving eggs when cheap and to have plenty for use when they are scarce and high-priced.

Prices: Half-gal. cans, 50c; 1-gal. cans, 90c. Special prices on 10, 20 and 50-gal. casks.

Parcel Post weights: Half-gal. can, 8 lbs; 1-gal. can, 15 lbs.

Planet, Jr. Farm and Garden Tools



We have in stock a full assortment of Planet Jr. garden tools. These garden tools are in a class by themselves. We would be glad to hand you cir-

cular and quote prices at any time if you are interested.

{ Either variety sent free if your order amounts to 25 cents or more. Mark out the one not wanted

[illegible]

CUSTOMERS PLEASE DO NOT WRITE IN THIS SPACE

Route Shipped by.....Date Shipped.....

in..... Pkgs..... Bundles..... Boxes..... Crates..... Baskets..... Bbl..... Bags

The following articles will be sent later.....

Laid out by.....Checked by..... Reply required by.....

THE IDEAL WATERERS

Ideal Hog Waterer Styles

No. 4, 5 and 6

An absolutely sanitary waterer that will not freeze in winter and keeps the water cool, fresh and clean in the summer. An all-the-year-around waterer. Every hog raiser knows that good, clean water is an absolute necessity in raising hogs and chickens to get the most out of them. Hogs and poultry are two of the best paying crops you raise and the better care they receive the more profit they make for you.

A hog wants water frequently—he will leave his feed and take a few swallows of water if the water is convenient for them. They require lots of water to digest their food properly and keep the system in a good healthy condition. A hog consumes from 7 to 8 pounds of water for each pound of dry matter eaten—nearly twice as much as horses and cattle.

Your growing hogs or brood sows should never be given ice cold water. They cannot keep as healthy, grow and produce as well if their entire body is thoroughly chilled two or three times a day with cold water. You have seen hogs hesitate about drinking cold water, but when really thirsty they drink more than they should and then stand for an hour all humped up and shivering. Their entire body is chilled; their food is not thoroughly digested and a part of the nutrition they do get from the corn goes to heat the body instead of producing fat.

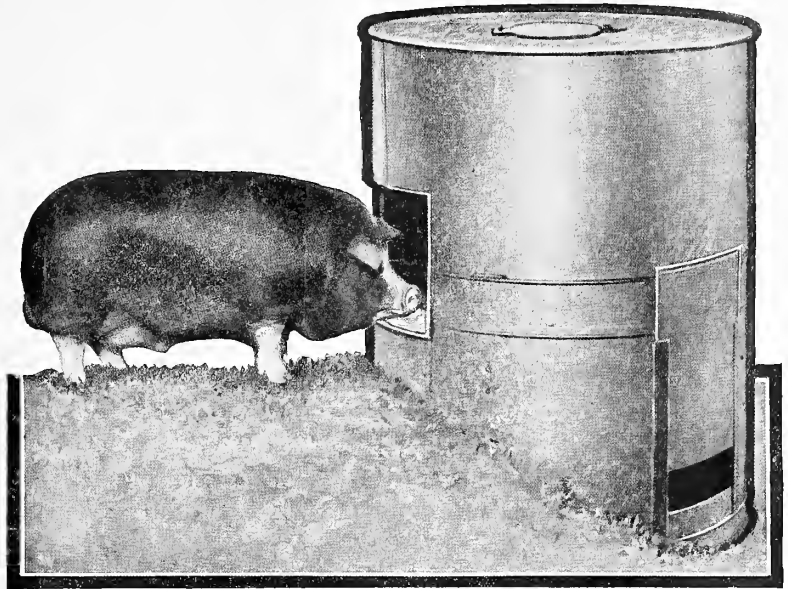
You can positively save 25 per cent of your feed cost by giving your hogs a constant supply of good, clean water, with the chill off just as they want it.

A hog will live and put on weight for 4 or 5 days with practically no food if he is given all the water he wants, but he will begin to lose weight in two days if he has no water, even though he has all the corn he wants.

Nearly two-thirds of a hog's body is water. Give them all they will drink. Water is cheap—corn costs money. Plenty of pure water is a big help toward preventing disease.

One of the hardest chores on the farm is to properly water the hogs, especially in cold, zero weather when the water freezes in the trough in half an hour. It is a hard job to chop ice from the trough two or three times a day to give the hogs fresh water, and even then they do not have water as often as they should. With an Ideal Waterer your hogs can have a constant supply of good, clean water with the chill off just as they want it, night and day. Hogs will drink frequently both night and day if the water is convenient and the right temperature.

With the tank style of Waterers the water is automatically fed to the drinking pan by the vacuum system so there are no valves or other mechanism



to get out of order. The trough is always full but never overflows. No mud hole or disease breeding place around the drinking troughs.

The drinking trough is thoroughly protected so horses or cattle cannot step into it or damage it, and hogs cannot get into it with their feet to foul or waste the water, but they can always have all they want to drink.

In the top of the tank is a vacuum—no air or anything but just space. A complete vacuum is a non-conductor of heat and cold so this keeps the water cool in summer and helps to keep it warm in winter.

In cold weather the water that is exposed to the air will freeze first. There is no advantage in keeping water in a tank warm if it freezes in the trough where the hogs drink. You will note by the illustration that the lamp sets directly under the drinking pan so the water cannot freeze and the heat then passes up around the tank and keeps the water at just the right temperature.

The Ideal Waterers have been used and worked perfectly with the thermometer at 35 degrees below zero.

The heat being properly applied as it is, and confined inside the casing the lamp can be turned low so it uses only a small amount of coal oil. It costs only 2 to 3 cents a day to keep the water warm night and day in the coldest weather.

An approach is built to the drinking trough so hogs of any size can drink.

The Ideal Waterers are made of heavy galvanized iron. They are strong and substantial and will last for years. They are shipped complete with lamp and metal chimney.

Sizes and Prices

No. 4—30-gallon Waterer, weight 80 lbs....	\$14.50
No. 5—60-gallon Waterer, weight 100 lbs....	19.50
No. 52—60-gallon Waterer, with two drinking troughs, weight 100 lbs.....	22.50
No. 6—100-gallon Waterer, weight 140 lbs.....	27.00
No. 62—100-gallon Waterer, with two drinking troughs, weight 140 lbs.....	30.00

WE SPECIALIZE IN

CABBAGE SEED

COW PEAS

SEED CORN

CLOVERS

ALFALFA

TIMOTHY

WE SELL NO SEED
BUT WHAT GIVE
A HIGH
GERMINATION
TEST

OUR
SEEDS MUST
ALL PASS THE
STRINGENT
IOWA SEED LAW



STECHER CO. ROCHESTER, N.Y.

RELIABLE

PURE

SEEDS

FOR THE FARM

FOR THE GARDEN